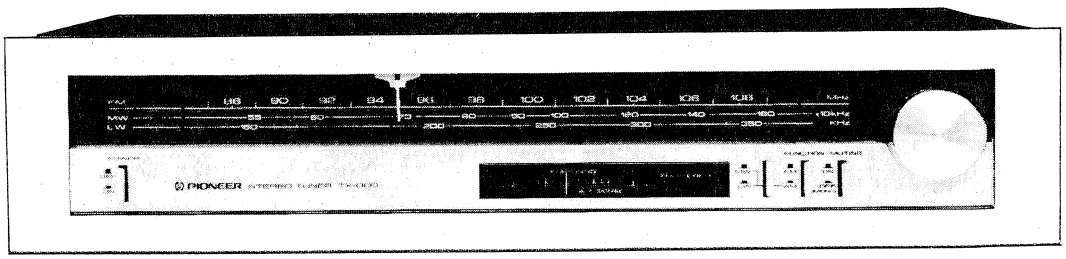
LW/MW/FM STEREO TUNER

TX-408L

SERVICE MANUAL



PIONEER®

DISASSEMBLY

Bonnet Case

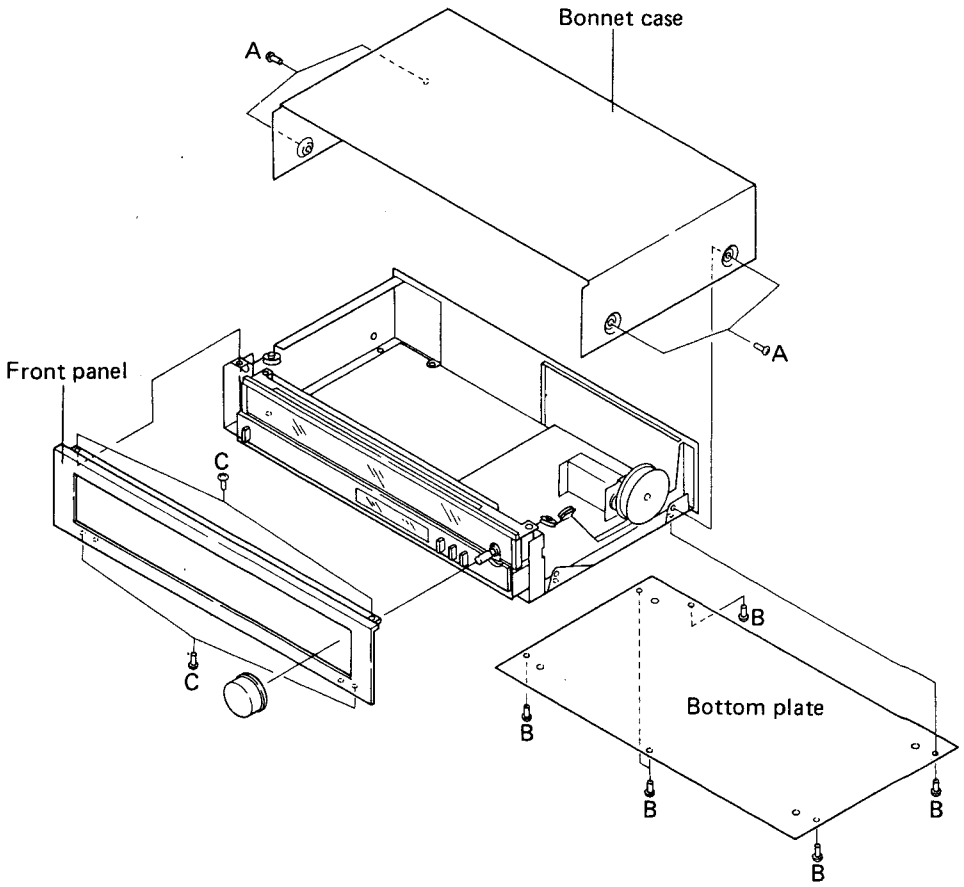
Remove the four screws (A).

Bottom Plate

Remove the six screws (B).

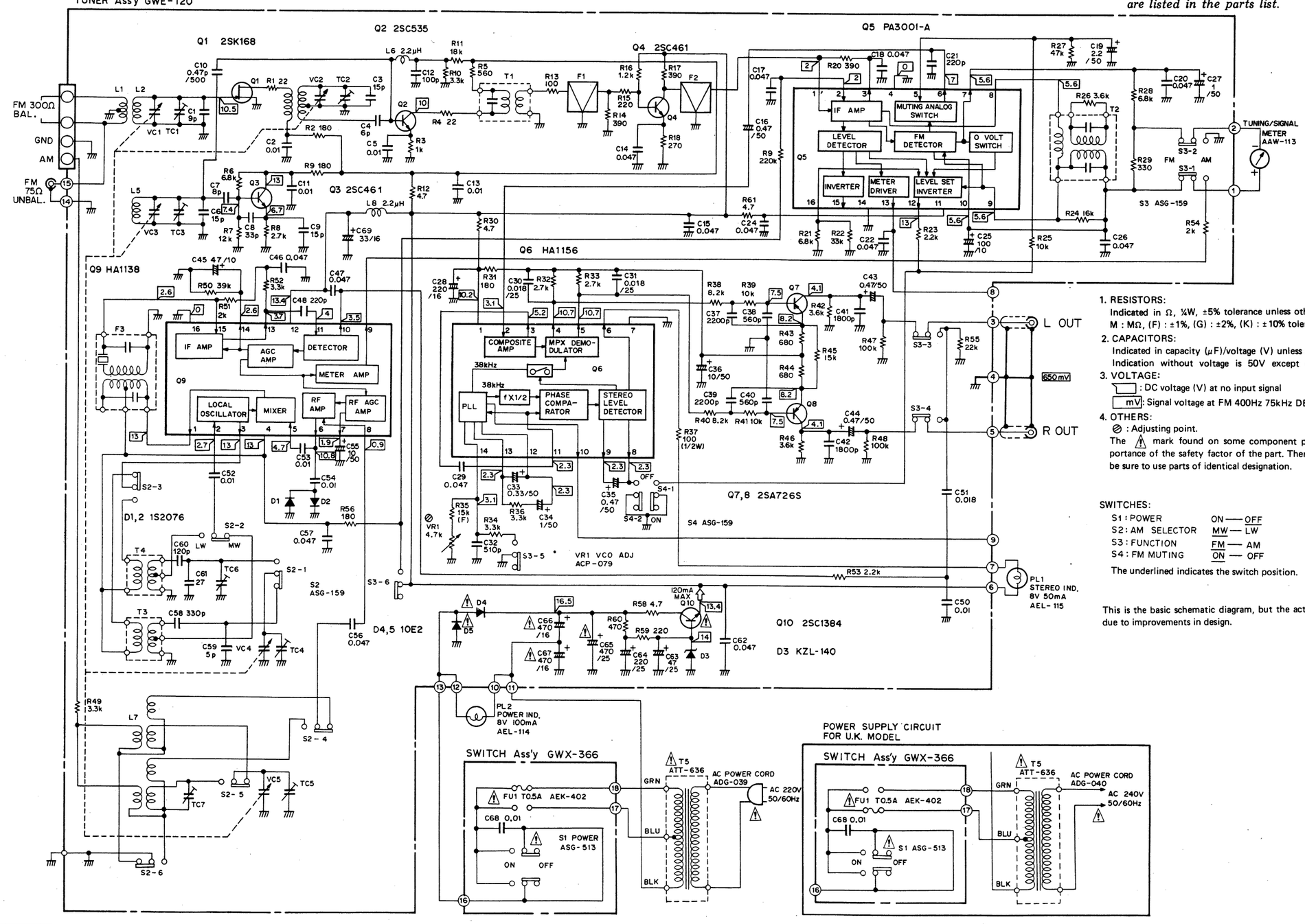
Front Panel

Pull off the tuning knob, and remove the four screws (C).



SCHEMATIC DIAGRAM

NOTE:
The indicated semiconductors are representative ones only. Other alternative semiconductors may be used and are listed in the parts list.



1. RESISTORS:
   Indicated in Ω, ¼W, ±5% tolerance unless otherwise noted k : kΩ, M : MΩ, (F) : ±1%, (G) : ±2%, (K) : ±10% tolerance
2. CAPACITORS:
   Indicated in capacity (μF)/voltage (V) unless otherwise noted p : pF
   Indication without voltage is 50V except electrolytic capacitor.
3. VOLTAGE:
   : DC voltage (V) at no input signal
   mV: Signal voltage at FM 400Hz 75kHz DEV.
4. OTHERS:
   ⊘ : Adjusting point.
   The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

SWITCHES:

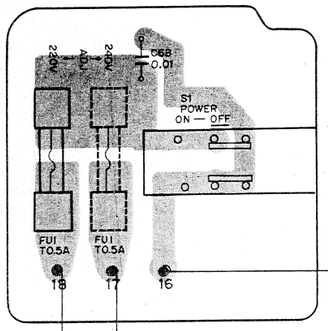
S1 : POWER	ON — OFF
S2 : AM SELECTOR	MW — LW
S3 : FUNCTION	FM — AM
S4 : FM MUTING	ON — OFF

The underlined indicates the switch position.

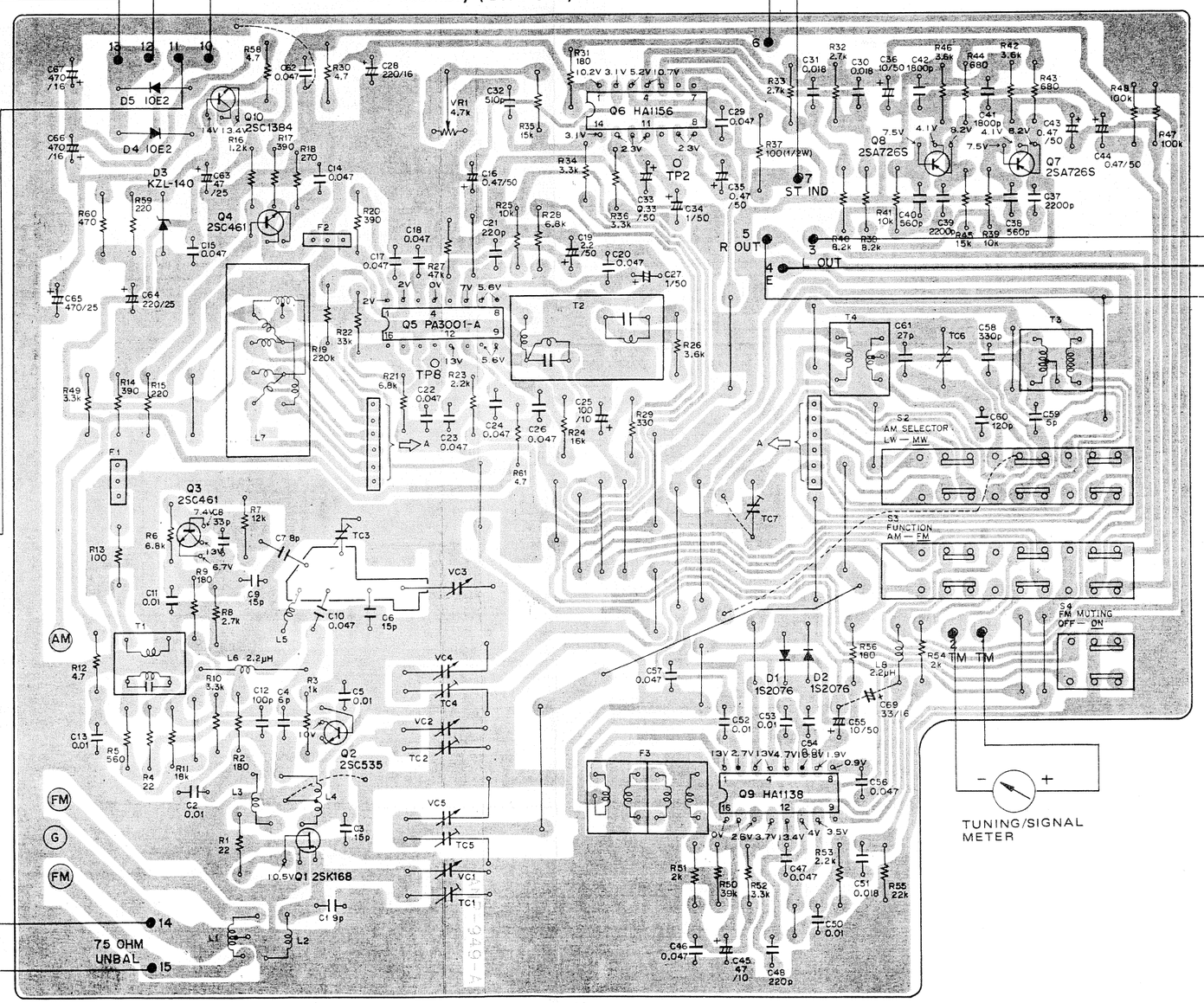
This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

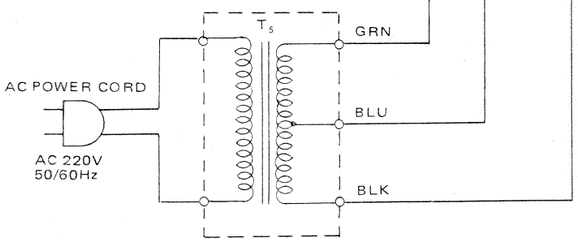
P.C. BOARD CONNECTION DIAGRAM

Switch Assembly (GWX-366)



Tuner Assembly (GWE-120)

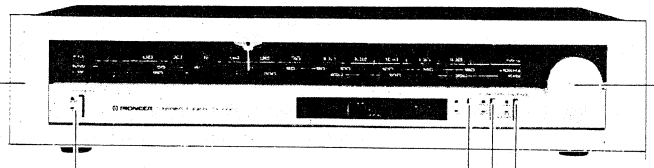




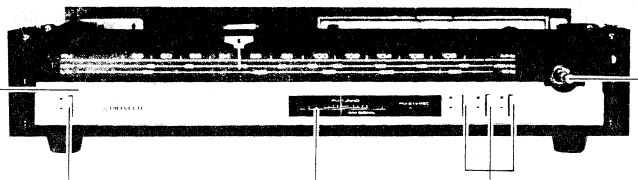
PARTS LOCATION

- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

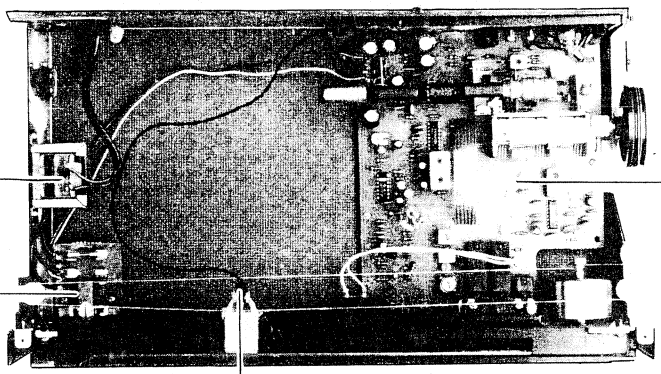
Front Panel View



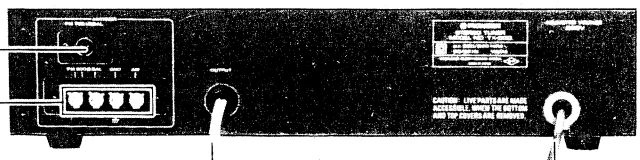
Front View with Panel Removed



Top View

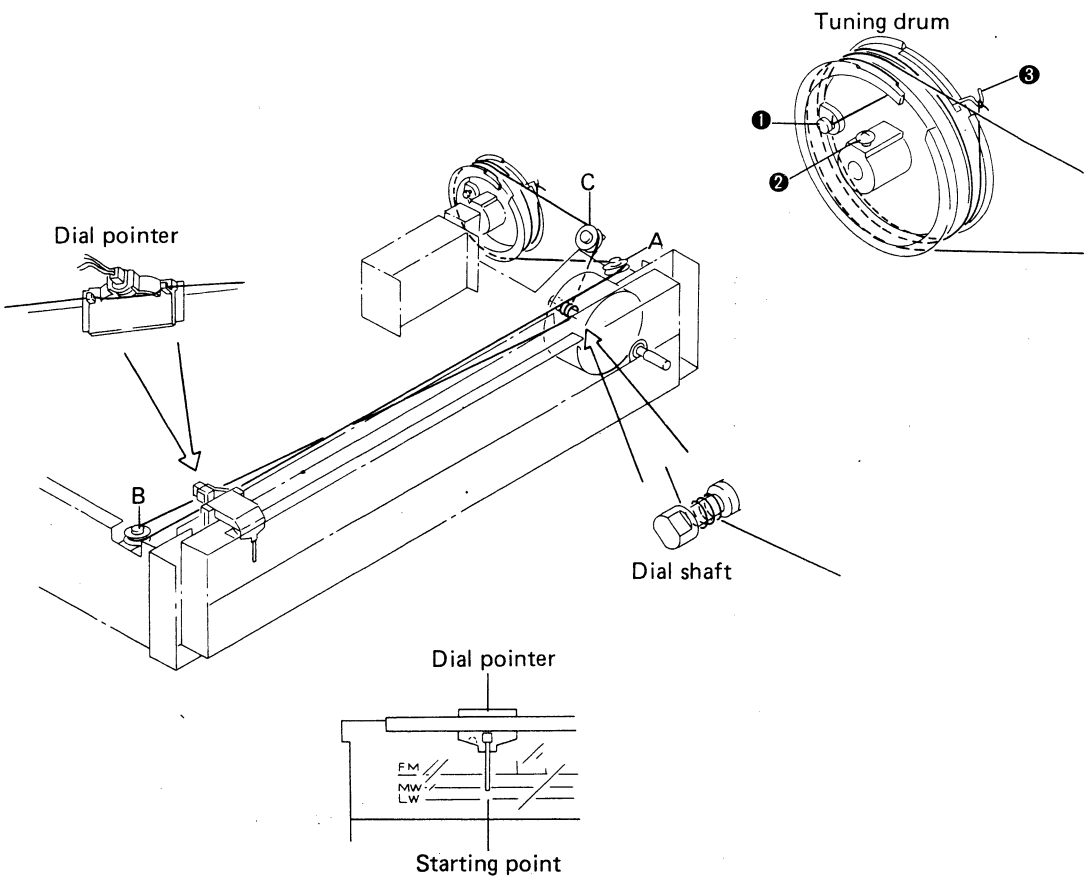


Rear Panel View



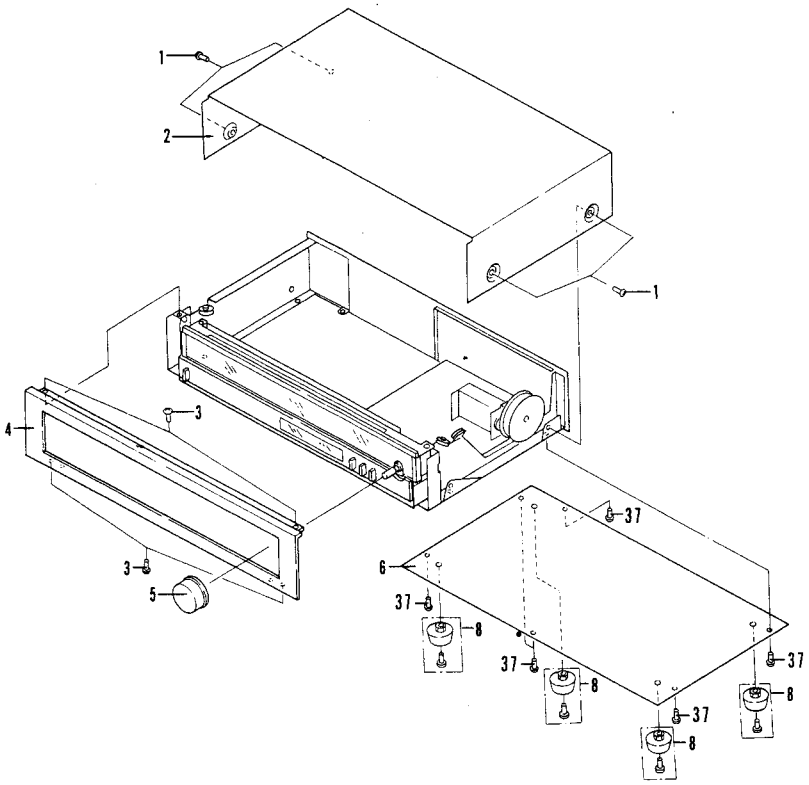
DIAL CORD STRINGING

1. Remove the bonnet case and front panel as described in the "Disassembly" section on page 6.
2. Remove the tuning drum from the shaft of the tuning capacitor.
3. Tie one end of the cord to the stud ❶ located inside the tuning drum.
4. Rotate the tuning capacitor right around until the rotor blades are fully intermeshed.
5. Secure the tuning drum back onto the tuning capacitor shaft, making sure that the securing screw ❷ faces directly upward.
6. Pass the cord out through the small opening in the circumference of the tuning drum (see diagram), and then take it over pulleys A and B in that sequence.
7. Wind the cord around the dial shaft 3 times.
8. Pass it over pulley C, wind it around the tuning drum 2 times, and finally tie it to the spring hook ❸ so that it is tensioned.
9. Turn the dial shaft, and check that the cord moves smoothly.
10. Cut off any excess cord.
11. Turn the dial shaft counter-clockwise as far as it will go.
12. Align the dial pointer with the starting point of the dial scale, and then pass the cord over it.
13. Check that the dial pointer is in line with the starting point of the dial scale.
14. Finally apply the locking paint to the cord securing positions (stud ❶ and spring hook ❸) and the dial pointer connection.

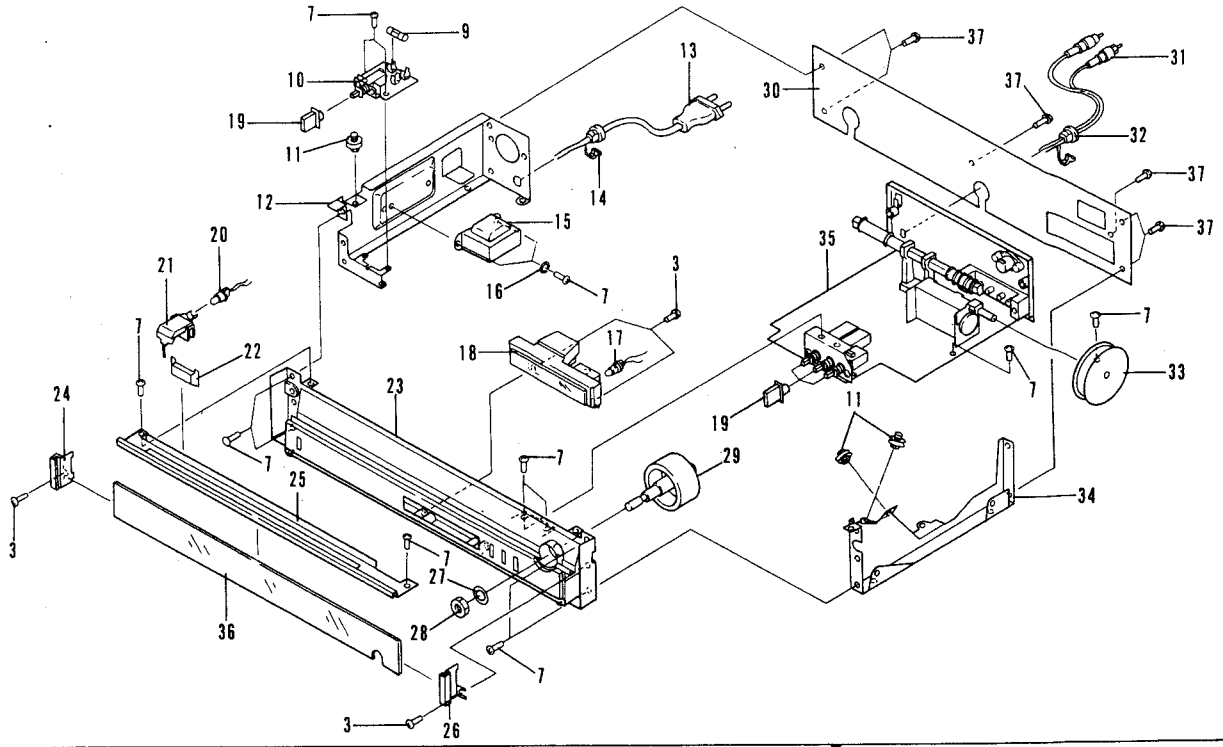


EXPLODED VIEW

Exterior Components



Interior Components



Parts List of Exploded View

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*

Key No.	Part No.	Description
1.	ABA-079	Screw (4x8)
2.	ANE-260	Bonnet case
3.	ABA-082	Screw (3x10)
4.	ANB-788	Front panel
5.	AAA-062	Knob
6.		Bottom plate
7.	ABA-066	Screw (3x8)
8.	AEC-589	Foot assembly
⚠ 9.	AEK-401	Fuse (T 0.5A)
10.	GWX-366	Switch assembly
11.		Pulley assembly
12.		Frame L
⚠ 13.	ADG-039	AC power cord
14.	AEC-327	Strain relief
⚠ 15.	ATT-636	Power transformer
16.	ABE-046	Washer
17.	AEL-115	Lamp with wire (8V, 50mA)
18.	AAW-113	Tuning/Signal meter
19.	AAD-196	Push knob
20.	AEL-114	Lamp with wire (8V, 100mA)
21.		Dial pointer assembly
22.		Smoother
23.	ANB-787	Sub panel
24.		Side cover L
25.		Plate
26.		Side plate R
27.	B22-016	Washer
28.	B71-004	Nut M9
29.	AXA-239	Dial shaft
30.		Rear panel
31.	ADE-030	Connection cord
32.	AEC-337	Strain relief
33.		Tuning drum assembly
34.		Frame R
35.	GWE-120	Tuner assembly
36.	ANB-789	Glass plate
37.	ABA-246	Screw

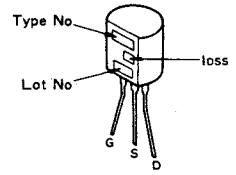
MISCELLANEA

Miscellaneous Parts

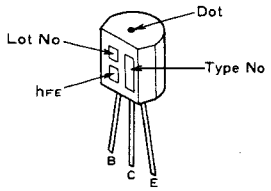
Part No.	Symbol & Description	
⚠ATT-636	T5	Power transformer
AEL-115	PL1	Lamp with wire (8V, 50mA)
AEL-114	PL2	Lamp with wire (8V, 100mA)
⚠AEK-401	FU1	Fuse (T 0.5A)

External Appearance of Transistors and ICs

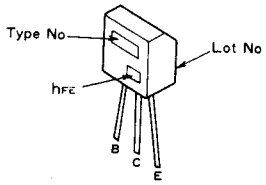
2SK168



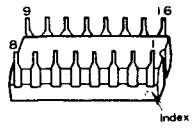
2SA726S



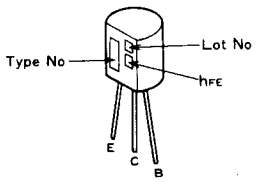
2SC461
2SC535



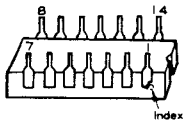
PA3001-A
HA1138



2SA750



HA1156W-P



2SC1384